

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1473	(381/1,17,18).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/06/07 15:20
L2	949	(381/61,63).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/06/07 15:18
L3	46	L1 and virtual and DSP and memory	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/06/07 15:22
L4	34	L2 and virtual and DSP and memory	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/06/07 15:23
L5	1	L1 and virtual and DSP and memory and GUI	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/06/07 15:22
L6	5	L2 and virtual and DSP and memory and GUI	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/06/07 15:23
S1	0	("DSPsame(headadj2relatedadj2transfer").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2004/08/20 11:08
S2	26	DSP same (head adj2 related adj2 transfer)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/08/20 11:09
S3	0	("EP-571638-\$.did.").PN.	USPAT; USOCR; EPO	OR	OFF	2003/11/06 08:26
S4	0	EP-0571638-\$.did.	USPAT; EPO	OR	OFF	2003/10/30 10:50
S5	1	EP-571638-\$.did.	USPAT; EPO	OR	OFF	2005/10/06 10:19
S6	19	(audio near2 apparat\$2) same receiver same memory	USPAT; EPO; JPO	OR	OFF	2003/11/12 09:56
S7	1	(audio near2 apparat\$2) same receiver same pc	USPAT; EPO; JPO	OR	OFF	2003/10/30 11:29
S8	237	(audio near2 system) same pc	USPAT; EPO; JPO	OR	OFF	2003/10/30 11:32
S9	468	(audio near2 system) same comput\$2 same receiv\$2	USPAT; EPO; JPO	OR	OFF	2004/07/20 09:34
S10	5	(audio near2 system) same USB same amplifier	USPAT; EPO; JPO	OR	OFF	2003/10/30 11:44
S11	0	(mplifier near2 system)	USPAT; EPO; JPO	OR	OFF	2003/10/30 11:51

## EAST Search History

S12	9341	(amplifier near2 system)	USPAT; EPO; JPO	OR	OFF	2003/10/30 11:51
S13	2	(amplifier near2 system) same (auxili\$3 near2 termi\$3)	USPAT; EPO; JPO	OR	OFF	2003/10/30 11:52
S14	1	"3825847".URPN.	USPAT	OR	OFF	2003/10/30 11:52
S15	2	(amplifier near2 apparat\$2) same (auxili\$3 near2 termi\$3)	USPAT; EPO; JPO	OR	OFF	2003/10/30 12:07
S16	3	(audio near2 system) same (auxili\$3 near2 termi\$3)	USPAT; EPO; JPO	OR	OFF	2003/10/30 11:54
S17	521	(audio near2 system) same (tun\$2)	USPAT; EPO; JPO	OR	OFF	2004/04/06 11:41
S18	374	(audio near2 system) same (tuner)	USPAT; EPO; JPO	OR	OFF	2003/10/30 11:54
S19	493	(340/825.22).CCLS.	USPAT; USOCR; EPO; JPO	OR	OFF	2003/11/04 12:02
S20	5	("5132679"   "5400246"   "5482753"   "5619251"   "6131111").PN.	USPAT	OR	OFF	2003/10/30 12:52
S21	7	"5646603".URPN.	USPAT	OR	OFF	2003/10/30 13:02
S22	24	("4482947"   "4581645"   "4703359"   "4709412"   "4771283"   "4774511"   "4864647"   "4965557"   "4989081"   "5109222"   "5132679"   "5142397"   "5182551"   "5182552"   "5243430"   "5255180"   "5367316"   "5383044"   "5416535"   "5418527"   "5438325"   "5473317"   "5534865"   "5554979").PN.	USPAT	OR	OFF	2003/10/30 13:07
S23	13	"5182552".URPN.	USPAT	OR	OFF	2003/10/30 13:09
S24	385	(340/825.24,825.25).CCLS.	USPAT; USOCR; EPO; JPO	OR	OFF	2003/11/06 16:37
S25	5	("5132679"   "5400246"   "5482753"   "5619251"   "6131111").PN.	USPAT	OR	OFF	2003/10/30 13:12

## EAST Search History

S26	17	("5231493"   "5253066"   "5282028"   "5410326"   "5479266"   "5559548"   "5635978"   "5710601"   "5710605"   "5724492"   "5883680"   "5956025"   "6020881"   "6040829"   "6097441"   "6104334"   "6195548").PN.	USPAT	OR	OFF	2003/10/30 13:14
S27	10	("4855730"   "5142277"   "5182552"   "5255180"   "5280281"   "5351041"   "5420573"   "5457446"   "5537104"   "5550979").PN.	USPAT	OR	OFF	2003/10/30 13:19
S28	2	"5796352".URPN.	USPAT	OR	OFF	2003/10/30 13:20
S29	0	(340/825.24,825.25) and (rewrit\$5 near2 memory)	USPAT; EPO; JPO	OR	OFF	2003/11/04 11:50
S30	0	(340/825.24,825.25) and (rewrit\$5 near4 memory)	USPAT; EPO; JPO	OR	OFF	2003/11/06 08:35
S31	0	(340/825.24,825.25) and (writ\$5 near4 memory)	USPAT; EPO; JPO	OR	OFF	2003/10/30 13:27
S32	0	(340/825.24,825.25).ccls. and (rewrit\$5 near2 memory)	USPAT; EPO; JPO	OR	OFF	2003/10/30 13:27
S33	29	(340/825.24,825.25).ccls. and (writ\$5 near4 memory)	USPAT; EPO; JPO	OR	OFF	2003/10/30 13:42
S34	56	(340/825.24,825.25).ccls. and (control\$4 near2 memory)	USPAT; EPO; JPO	OR	OFF	2003/10/30 14:00
S35	61	AV near2 control near3 device	USPAT; EPO; JPO	OR	OFF	2003/10/30 14:03
S36	35	AV near2 control near3 apparat\$2	USPAT; EPO; JPO	OR	OFF	2003/10/30 14:04
S37	563	AV near2 equipm\$3	USPAT; EPO; JPO	OR	OFF	2003/10/30 14:04
S38	11	(AV near2 equipm\$3) same portable	USPAT; EPO; JPO	OR	OFF	2003/10/30 14:06
S39	4	(AV near2 system) same portable	USPAT; EPO; JPO	OR	OFF	2003/10/30 14:08
S40	35	AV near3 portable	USPAT; EPO; JPO	OR	OFF	2003/10/30 14:09
S41	11	("4274082"   "4600948"   "4808992"   "4855730"   "4903130"   "4907085"   "5097249"   "5153580"   "5182552"   "5204662"   "5255180").PN.	USPAT	OR	OFF	2003/11/04 11:13

## EAST Search History

S42	0	(340/825.24,825.25) and (audio near2 amplifi\$2)	USPAT; EPO; JPO	OR	OFF	2003/11/04 11:27
S43	0	"6636157".URPN.	USPAT	OR	OFF	2003/11/04 11:43
S44	0	"6636157".URPN.	USPAT	OR	OFF	2003/11/04 11:43
S45	0	"6636157".URPN.	USPAT	OR	OFF	2003/11/04 11:43
S46	24	("4482947"   "4581645"   "4703359"   "4709412"   "4771283"   "4774511"   "4864647"   "4965557"   "4989081"   "5109222"   "5132679"   "5142397"   "5182551"   "5182552"   "5243430"   "5255180"   "5367316"   "5383044"   "5416535"   "5418527"   "5438325"   "5473317"   "5534865"   "5554979").PN.	USPAT	OR	OFF	2003/11/04 11:43
S47	9	("4241400"   "4646224"   "4771283"   "4825209"   "4965557"   "4982319"   "5028919"   "5081534"   "5255180").PN.	USPAT	OR	OFF	2003/11/04 11:45
S48	5	("4626847"   "4808992"   "4907079"   "5097249"   "5182552").PN.	USPAT	OR	OFF	2003/11/04 11:47
S49	0	(340/825.24,825.25) and (DSP)	USPAT; EPO; JPO	OR	OFF	2003/11/04 11:50
S50	5	("4754423"   "4786902"   "4910510"   "4951039"   "5182553").PN.	USPAT	OR	OFF	2003/11/04 11:58
S51	80	A/V near2 system	USPAT; EPO; JPO	OR	OFF	2003/11/04 12:42
S52	23	A/V near2 apparatus	USPAT; EPO; JPO	OR	OFF	2003/11/04 12:43
S53	3	((("5577044") or ("5946293") or ("5689438")).PN.	USPAT; USOCR; EPO	OR	OFF	2003/11/06 08:33
S54	0	(audio near2 apparat\$2) same (touch near2 screen near2 display)	USPAT; EPO; JPO	OR	OFF	2003/11/06 08:33
S55	1	(audio near2 apparat\$2) same (touch near3 display)	USPAT; EPO; JPO	OR	OFF	2003/11/06 08:34
S56	0	(340/825.24,825.25) and (touch near2 display)	USPAT; EPO; JPO	OR	OFF	2003/11/06 08:44
S57	0	(340/825.24,825.25) and (display same USB)	USPAT; EPO; JPO	OR	OFF	2003/11/06 08:44

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S58	3	(340/825.24,825.25).ccls. and (display same USB)	USPAT; EPO; JPO	OR	OFF	2003/11/06 08:44
S59	8	(340/825.24,825.25).ccls. and (touch near2 display)	USPAT; EPO; JPO	OR	OFF	2003/11/12 10:24
S60	12	("4223987"   "4322855"   "4340799"   "4365633"   "4418416"   "4673911"   "4728936"   "4728949"   "4746919"   "4825209"   "4855725"   "5097671").PN.	USPAT	OR	OFF	2003/11/06 08:48
S61	67	"5475835".URPN.	USPAT	OR	OFF	2003/11/06 08:50
S62	9	"5537106".URPN.	USPAT	OR	OFF	2003/11/06 08:52
S63	283	(345/700).CCLS.	USPAT; USOCR; EPO; JPO	OR	OFF	2003/11/06 16:31
S64	60	(340/825.29).CCLS.	USPAT; USOCR; EPO; JPO	OR	OFF	2003/11/06 16:37
S65	10	(340/825.24,825.25).ccls. and (touch near2 scree\$1)	USPAT; EPO; JPO	OR	OFF	2003/11/12 10:12
S66	7	("5003396"   "5307055"   "5410326"   "5537107"   "6002450"   "6052556"   "6097441").PN.	USPAT	OR	OFF	2003/11/06 16:58
S67	7	("5003396"   "5307055"   "5410326"   "5537107"   "6002450"   "6052556"   "6097441").PN.	USPAT	OR	OFF	2003/11/06 16:59
S68	0	"6496122".URPN.	USPAT	OR	OFF	2003/11/06 17:00
S69	17	(audio near2 apparat\$2) same (select\$3 near3 memory)	USPAT; EPO; JPO	OR	OFF	2003/11/12 09:59
S70	7	(audio) same (select\$3 near3 either near2 memory)	USPAT; EPO; JPO	OR	OFF	2003/11/12 10:09
S71	54	(memory near2 control\$3 near2 CPU) same audio	USPAT; EPO; JPO	OR	OFF	2003/11/12 10:11
S72	16	(ROM near2 control\$3 near2 CPU) same audio	USPAT; EPO; JPO	OR	OFF	2003/11/12 10:11
S73	0	(340/825.24,825.25).ccls. and (memory near2 select\$2 near2 CPU)	USPAT; EPO; JPO	OR	OFF	2003/11/12 10:13
S74	9	(340/825.24,825.25).ccls. and (memory near2 select\$2)	USPAT; EPO; JPO	OR	OFF	2003/11/12 10:16
S75	2	(340/825.24,825.25).ccls. and (ROM near2 select\$2)	USPAT; EPO; JPO	OR	OFF	2003/11/12 10:15

## EAST Search History

S76	2	(340/825.24,825.25).ccls. and (RAM near2 select\$2)	USPAT; EPO; JPO	OR	OFF	2003/11/12 10:15
S77	0	(340/825.24,825.25).ccls. and (CPU near2 select\$1 near2 memory)	USPAT; EPO; JPO	OR	OFF	2003/11/12 10:17
S78	0	(340/825.24,825.25).ccls. and (CPU near2 choos\$2 near3 memory)	USPAT; EPO; JPO	OR	OFF	2003/11/12 10:17
S79	0	(340/825.24,825.25).ccls. and (CPU near2 choos\$2)	USPAT; EPO; JPO	OR	OFF	2003/11/12 10:17
S80	4	(340/825.24,825.25).ccls. and (CPU near3 RAM near2 ROM)	USPAT; EPO; JPO	OR	OFF	2003/11/12 10:17
S81	10	(340/825.24,825.25).ccls. and (touch near2 screen)	USPAT; EPO; JPO	OR	OFF	2003/11/12 12:53
S82	35	(controll\$2 near4 display near3 image) same speaker\$1	USPAT; EPO; JPO	OR	OFF	2003/11/12 11:45
S83	4	"sony".AS. and (GDC same display same broadcast)	USPAT; EPO; JPO	OR	OFF	2003/11/12 13:00
S84	2	"5818418".URPN.	USPAT	OR	OFF	2003/11/12 12:55
S85	7	("4718112"   "4876719"   "5027687"   "5247864"   "5282028"   "5321846"   "5475835").PN.	USPAT	OR	OFF	2003/11/12 12:56
S86	10	(USB near2 interface) near4 RAM	USPAT; EPO; JPO	OR	OFF	2003/11/12 14:31
S87	0	data near3 input\$3 near2 (USB near2 interface) same RAM	USPAT; EPO; JPO	OR	OFF	2003/11/12 13:02
S88	21	data near3 (USB near2 interface) same RAM	USPAT; EPO; JPO	OR	OFF	2003/11/12 13:41
S89	5	("6122676"   "6151653"   "6157975"   "6205501"   "6311294"   "2001/0056513").PN.	USPAT	OR	OFF	2003/11/12 13:03
S90	5	("6122676"   "6151653"   "6157975"   "6205501"   "6311294"   "2001/0056513").PN.	USPAT	OR	OFF	2003/11/12 13:05
S91	1	("6496122").PN.	USPAT; USOCR	OR	OFF	2003/11/12 13:41
S92	96	(USB near2 interface) same RAM	USPAT; EPO; JPO	OR	OFF	2003/11/12 14:49
S93	9	(USB near2 interface) same RAM same audio	USPAT; EPO; JPO	OR	OFF	2003/11/12 14:28
S94	0	(USB near2 interface) same RAM same acoustic	USPAT; EPO; JPO	OR	OFF	2003/11/12 14:28
S95	0	(acoustic near2 equipment) same USB	USPAT; EPO; JPO	OR	OFF	2003/11/12 14:29

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S96	0	(acoustic near2 apparatus) same USB	USPAT; EPO; JPO	OR	OFF	2003/11/12 14:29
S97	13	(acoustic) same USB	USPAT; EPO; JPO	OR	OFF	2003/11/12 14:29
S98	1038	USB near2 interface	USPAT; EPO; JPO	OR	OFF	2003/11/12 14:31
S99	6	("5544326"   "5615344"   "5684954"   "5715409"   "5816718"   "6185641").PN.	USPAT	OR	OFF	2003/11/12 14:34
S10 0	12	("4604683"   "4799156"   "5309440"   "5497373"   "5530894"   "5537654"   "5541930"   "5574861"   "5682552"   "5859993"   "5974486"   "6044428").PN.	USPAT	OR	OFF	2003/11/12 14:46
S10 1	11	(USB near2 interface) same microcomputer	USPAT; EPO; JPO	OR	OFF	2003/11/12 15:03
S10 2	34	(data near2 input\$3) same (USB near2 interface)	USPAT; EPO; JPO	OR.	OFF	2003/11/12 14:58
S10 3	10	data near3 via near3 (USB near2 interface)	USPAT; EPO; JPO	OR	OFF	2003/11/12 15:35
S10 4	15	("5400216"   "5421737"   "5604917"   "5682548"   "5747735"   "5752857"   "5820414"   "5835931"   "5846092"   "5890015"   "6129572"   "6185641"   "6199120"   "6220882"   "6308215").PN.	USPAT	OR	OFF	2003/11/12 15:00
S10 5	2	(USB near2 audio near2 interface)	USPAT; EPO; JPO	OR	OFF	2003/11/12 15:05
S10 6	29	(set near2 top near2 box) same USB	USPAT; EPO; JPO	OR	OFF	2003/11/12 15:08
S10 7	0	(broadcast near2 receiv\$3) same UCB	USPAT; EPO; JPO	OR	OFF	2003/11/12 15:08
S10 8	9	(broadcast near2 receiv\$3) same USB	USPAT; EPO; JPO	OR	OFF	2003/11/12 15:08
S10 9	2	"6286063".URPN.	USPAT	OR	OFF	2003/11/12 15:09
S11 0	51	(control near3 (USB near2 interface))	USPAT; EPO; JPO	OR	OFF	2003/11/12 15:11
S11 1	2	USB near4 microcomput\$2 near3 RAM	USPAT; EPO; JPO	OR	OFF	2003/11/12 15:17
S11 2	2	universal near2 serial near2 bus	USPAT; EPO; JPO	OR	OFF	2003/11/12 15:34

## EAST Search History

S11 3	71	data near3 via near3 USB	USPAT; EPO; JPO	OR	OFF	2003/11/12 15:38
S11 4	2	(data near3 via near3 USB) same RAM	USPAT; EPO; JPO	OR	OFF	2003/11/12 15:39
S11 5	2	((("6219736") or ("6496122")).PN.	USPAT; USOCR	OR	OFF	2004/04/06 12:09
S11 6	0	(audio near2 system) same (tun\$2) same display same virtual	USPAT; EPO; JPO	OR	OFF	2004/04/06 11:41
S11 7	2	(audio near2 system) same display same virtual near2 speak\$3	USPAT; EPO; JPO	OR	OFF	2004/04/06 11:42
S11 8	1	JP-02117202-\$.did.	USPAT; JPO	OR	OFF	2004/04/06 12:10
S11 9	0	JP-004015693-\$.did.	USPAT; JPO	OR	OFF	2004/04/06 12:10
S12 0	1	JP-04015693-\$.did.	USPAT; JPO	OR	OFF	2004/04/06 12:11
S12 1	1	JP-10145900-\$.did.	USPAT; JPO	OR	OFF	2004/04/06 12:20
S12 2	1	(audio near2 process\$3) same (display near3 listen\$2 near2 positi\$2)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/04/06 12:26
S12 3	79	(381/310).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2004/04/06 12:24
S12 4	21	(381/310).ccls. and display	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/07/19 16:56
S12 5	0	(audio) same (display near3 identifi\$2 near3 listen\$2 near2 positi\$2)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/04/06 12:27
S12 6	0	display near3 identifi\$2 near3 listen\$2 near2 positi\$2	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/04/06 12:27
S12 7	1	display near3 identifi\$3 near3 listen\$2	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/04/06 12:27
S12 8	2	image near3 identifi\$3 near3 listen\$2	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/04/06 12:28
S12 9	0	(virtual near process\$3) same (image near3 display near3 identifi\$3)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/04/06 12:29
S13 0	2	(virtual near process\$3) same (image near3 identifi\$3)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/04/06 12:29



## EAST Search History

S13 2	0	(700/94).ccls. and (audio) and (virtual adj2 speak\$2) and memory and DSP	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/07/19 15:03
S13 3	1	(700/94).ccls. and (audio) and (virtual adj2 speak\$2) and memory	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/07/29 10:18
S13 4	10	("381"/\$).ccls. and (virtual adj2 speak\$2) and memory and DSP	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/07/19 15:58
S13 5	18	("381"/\$).ccls. and (virtual adj2 speak\$2) near3 position	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/07/19 15:08
S13 6	3	("5440639"   "5946400"   "5974152").PN.	USPAT	OR	OFF	2004/07/19 15:05
S13 7	3	(virtual adj2 speak\$2) near3 position and DSP and memory	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/07/20 09:53
S13 8	0	(virtual adj2 speak\$2) and position and (DSP near4 sampl\$3 near3 frequenc\$3)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/07/19 15:36
S13 9	0	(virtual adj2 speak\$2) and position and (DSP near4 sampl\$3)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/07/19 15:36
S14 0	15	(virtual adj2 process\$3) and position and (DSP near4 sampl\$3)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/07/19 15:39
S14 1	1	("6747678").PN.	USPAT; USOCR	OR	OFF	2004/07/19 15:52
S14 2	9	("5060272"   "5151998"   "5524060"   "5559301"   "5619579"   "5666426"   "6067072"   "6359632"   "6490359").PN.	USPAT	OR	OFF	2004/07/19 15:40
S14 3	0	"6747678".URPN.	USPAT	OR	OFF	2004/07/19 15:42
S14 4	3	((("5917916") or ("5867223") or ("5590204"))).PN.	USPAT; USOCR	OR	OFF	2004/07/19 15:52
S14 5	0	(381/310).ccls. and memory and (DSP near3 sampl\$4)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/08/10 10:15
S14 6	7	(381/310).ccls. and memory and DSP and sampl\$4	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/07/19 16:26
S14 7	16	"yamaha".AS. and virtual and position and DSP and frequenc\$3	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/06 11:18

## EAST Search History

S14 8	2	katayama.in. and virtual and DSP and frequenc\$3	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/09/29 12:04
S14 9	43	sony.AS. and audio and tuner and DSP and memory	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/07/19 16:57
S15 0	4	"5652579".URPN.	USPAT	OR	OFF	2004/07/19 17:01
S15 1	236	(audio near2 system) and (memory near2 stor\$3 near3 paramet\$3)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/07/20 09:35
S15 2	110	(audio near2 system) and (memory near2 stor\$3 near3 DSP)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/07/20 09:35
S15 3	21	(audio near2 system) and (memory near2 stor\$3 near3 DSP) and virtual	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/07/20 09:36
S15 4	6	(virtual near2 process\$3) and (memory near2 stor\$3 near3 DSP)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/07/20 09:36
S15 5	1	("6496122").PN.	USPAT; USOCR	OR	OFF	2004/07/20 09:51
S15 6	26	(virtual adj2 speak\$2) near3 position	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/07/20 09:57
S15 7	108	receiver and tuner and sound and DSP and virtual	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/07/20 09:59
S15 8	165	receiver same tuner and sound and DSP	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/07/20 10:00
S15 9	0	("381"/\$).ccls. and virtual same display same DSP same memory	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/07/26 15:25
S16 0	18	("381"/\$).ccls. and virtual same display and DSP same memory	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/07/26 15:31
S16 1	14	"5812688".URPN.	USPAT	OR	OFF	2004/07/26 15:28
S16 2	0	("381"/\$).ccls. and virtual and (display\$3 adj3 speak\$2 adj3 position)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/07/26 15:32
S16 3	0	(700/94).ccls. and virtual and (display\$3 adj3 speak\$2 adj3 position)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/07/26 15:32

## EAST Search History

S16 4	2	virtual and (display\$3 adj3 speak\$2 adj3 position)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/07/26 15:33
S16 5	0	(virtual adj3 speak\$2) same (display\$3 adj3 position)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/07/29 10:43
S16 6	8	(virtual adj3 speak\$2) and (display\$3 adj3 position)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/07/29 10:08
S16 7	14	(virtual adj3 speak\$2) and (display\$3 adj3 monitor)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/07/26 16:00
S16 8	6	("6151028"   "6166727"   "6195104"   "6215498"   "6356288"   "6370565").PN.	USPAT	OR	OFF	2004/07/26 16:01
S16 9	4	DSP same (virtual near3 speak\$2)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/07/29 10:03
S17 0	2	("5809149"   "5822438").PN.	USPAT	OR	OFF	2004/07/29 10:01
S17 1	9	("4356349"   "4980914"   "5301236"   "5371799"   "5500900"   "5546465"   "5572591"   "5604809"   "5742688").PN.	USPAT	OR	OFF	2004/07/29 10:02
S17 2	4	DSP near3 (virtual near2 process\$2)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/07/29 10:04
S17 3	1	DSP same (virtual near2 process\$2) same speak\$2	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/07/29 10:05
S17 4	51	DSP same (virtual near2 process\$2)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/07/29 10:05
S17 5	3	DSP same (virtual near2 process\$2) and speak\$2	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/07/29 10:05
S17 6	57	DSP and (virtual near2 process\$2) and speak\$2	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/07/29 10:06
S17 7	11	"5657391".URPN.	USPAT	OR	OFF	2004/07/29 10:07
S17 8	46	(virtual adj3 speak\$2) same position	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/07/29 10:14
S17 9	3	("5440639"   "5946400"   "5974152").PN.	USPAT	OR	OFF	2004/07/29 10:09

## EAST Search History

S18 0	0	(virtual adj3 speak\$2) same USB and DSP	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/07/29 10:14
S18 1	0	(virtual adj3 speak\$2) same USB	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/07/29 10:15
S18 2	82	(audio adj3 system) same USB	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/07/29 10:15
S18 3	2	(audio adj3 system) same USB same virtual	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/07/29 10:15
S18 4	21	(audio adj3 system) same USB and virtual	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/07/29 10:17
S18 5	16	(audio adj3 system) same (virtual adj3 position\$3)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/07/29 10:18
S18 6	1	(700/94).ccls. and (audio) and (virtual adj2 speak\$2)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/07/29 10:19
S18 7	1	(700/94).ccls. and (virtual adj2 speak\$2)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/07/29 10:43
S18 8	14	virtual adj3 speak\$2 adj3 position	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/08/10 12:35
S18 9	14	virtual adj3 speak\$2 adj3 position	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/08/10 10:14
S19 0	4	yamaha same virtual	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/08/10 10:14
S19 1	0	(381/310).ccls. and (DSP near3 sampl\$4)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/08/10 10:15
S19 2	27	(381/310).ccls. and (DSP)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/01/18 09:05
S19 3	205	tuner same virtual	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/08/10 10:29
S19 4	0	tuner same virtual same speak34	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/08/10 10:29

## EAST Search History

S19 5	1	tuner same virtual same speaker	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/08/10 10:29
S19 6	160	computer same virtual same USB	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/08/10 10:32
S19 7	215	computer same virtual same speaker	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/08/10 10:32
S19 8	4	computer same virtual same speaker same USB	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/08/10 10:32
S19 9	24	computer same virtual same speaker and USB	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/08/10 10:33
S20 0	4	virtual same speaker same USB	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/08/10 10:34
S20 1	68	virtual same speaker and USB	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/08/10 10:35
S20 2	2	virtual adj2 speaker adj3 amplif\$6	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/08/19 12:24
S20 3	11	"5581618".URPN.	USPAT	OR	OFF	2004/08/10 11:23
S20 4	81	virtual same hrtf	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/08/10 12:35
S20 5	16	virtual adj2 speaker same (image near3 position)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/08/19 12:26
S20 6	0	virtual adj2 speaker same (image near3 position) same gui	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/08/19 12:27
S20 7	0	virtual adj2 speaker and (image near3 position) same gui	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/08/19 12:27
S20 8	5	virtual adj2 speaker and (image near3 position) same display	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/08/19 12:27

## EAST Search History

S20 9	19	("3826566"   "3919478"   "4018992"   "4495637"   "4685134"   "5027689"   "5046097"   "5052685"   "5105462"   "5198604"   "5291556"   "5440639"   "5581618"   "5636283"   "5666136"   "5682433"   "5684881"   "5696831"   "5742689").PN.	USPAT	OR	OFF	2005/10/07 11:52
S21 0	4	"5666136".URPN.	USPAT	OR	OFF	2004/08/19 12:30
S21 1	55	(345/773).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2004/08/19 14:50
S21 2	0	("(graphic\$5adj2useradj2interface) same(speak\$2near3position)").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2004/08/19 14:51
S21 3	2	(graphic\$5 adj2 user adj2 interface) same (speak\$2 near3 position)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/08/19 14:52
S21 4	0	(graphic\$5 adj2 user adj2 interface) same (virtual adj2 speak\$3)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/08/19 14:52
S21 5	11	(graphic\$5 adj2 user adj2 interface) and (virtual adj2 speak\$3)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/08/19 14:54
S21 6	1	("6747678").PN.	USPAT; USOCR	OR	OFF	2004/08/19 14:54
S21 7	9	("5060272"   "5151998"   "5524060"   "5559301"   "5619579"   "5666426"   "6067072"   "6359632"   "6490359").PN.	USPAT	OR	OFF	2004/08/19 14:54
S21 8	1	"6067072".URPN.	USPAT	OR	OFF	2004/08/19 14:55
S21 9	7	("4876719"   "4937875"   "5027687"   "5247864"   "5282028"   "5321846"   "5475835").PN.	USPAT	OR	OFF	2004/08/19 14:55
S22 0	0	(381/310).ccls. and (adjust\$3 adj2 virtual adj2 speaker adj2 postion)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/01/04 11:43
S22 1	0	(381/310).ccls. and (adjust\$3 adj2 azimuth) same (virtual adj2 speaker adj2 position)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/01/04 11:02

## EAST Search History

S22 2	0	("381"/\$).cccls. and (adjust\$3 adj2 virtual adj2 speaker adj2 position)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/09/29 11:53
S22 3	0	("381"/\$).cccls. and (adjust\$3 adj2 azimuth) same (virtual adj2 speaker adj2 position)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/01/04 11:03
S22 4	0	(adjust\$3 adj2 azimuth) same (virtual adj2 speaker adj2 position)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/01/04 11:03
S22 5	0	(adjust\$3 adj2 azimuth) same (virtual adj2 speaker)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/01/04 11:03
S22 6	0	(chang\$3 adj2 azimuth) same (virtual adj2 speaker)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/01/04 11:03
S22 7	0	(adjust\$3) same (virtual adj2 speaker adj2 position)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/01/04 11:04
S22 8	1	EP-571638-\$.did.	USPAT; EPO	OR	OFF	2005/01/04 11:04
S22 9	11	(adjust\$3) same (virtual adj2 speaker)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/01/04 11:06
S23 0	1	("5598478").PN.	USPAT	OR	OFF	2005/01/04 11:06
S23 1	0	(adjust\$3 adj2 virtual adj2 speaker adj2 postion)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/01/04 11:45
S23 2	0	(chang\$3 adj2 virtual adj2 speaker adj2 postion)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/01/04 11:45
S23 3	0	(chang\$3 near3 virtual adj2 speaker adj2 postion)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/01/04 11:45
S23 4	0	(adjust\$3 adj2 virtual adj2 speaker adj2 position)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/01/04 11:45
S23 5	0	(chang\$3 adj2 virtual adj2 speaker adj2 position)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/01/04 11:45
S23 6	0	(chang\$3 near3 virtual adj2 speaker adj2 position)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/01/04 11:45
S23 7	13	(virtual adj2 speaker adj2 position)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/01/04 11:58

## EAST Search History

S23 8	1	("5497790").PN.	USPAT	OR	OFF	2005/01/04 11:58
S23 9	1	("5459790").PN.	USPAT	OR	OFF	2005/10/06 11:09
S24 0	0	("381"/\$).ccls. and (send\$3 with DSP with sampling with frequen\$5)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/09/29 11:54
S24 1	0	("381"/\$).ccls. and (send\$3 with sampling with frequen\$5) and virtual same (\$4speak\$3)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/09/29 11:54
S24 2	5	("381"/\$).ccls. and (send\$3 with sampling with frequen\$5)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/09/29 11:57
S24 3	8	("381"/\$).ccls. and (CPU with sampling with frequen\$5)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/06 11:20
S24 4	36	("381"/\$).ccls. and virtual and (first with second with memory)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/09/29 12:00
S24 5	1	("381"/\$).ccls. and virtual and (first with second with memory with initial)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/03 13:43
S24 6	0	("700"/94).ccls. and virtual and (first with second with memory with initial)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/09/29 12:03
S24 7	0	("(audioadj2system)and(firstwithseconddwithmemorywithinitial)").PN.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/09/29 12:07
S24 8	18	(audio adj2 system) and (first with second with memory with initial)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/09/29 12:07
S24 9	9	virtual and (first with second with memory with initial) and audio	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/03 13:43
S25 0	80	virtual and (first with memory with initial) and audio	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/05 09:33
S25 1	25	virtual and ((first with memory with initial) same second) and audio	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/05 09:33
S25 2	1	EP-563929-\$.did.	USPAT; EPO	OR	OFF	2005/10/06 10:19
S25 3	127	nippon.AS. and (sound adj2 field)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2005/10/06 11:10



## EAST Search History

S25 4	19	nippon.AS. and (sound adj2 field) and coefficient	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2005/10/06 11:11
S25 5	3	takeda.in. and (sound adj2 field) and coefficient	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2005/10/06 11:11
S25 6	2	"yamaha".AS. and DSP same virtual same adjusting	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/06 11:19
S25 7	8	"yamaha".AS. and virtual same adjusting	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/06 11:19
S25 8	2	("381"/\$).ccls. and (CPU with DSP) same virtual	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/06 11:21
S25 9	9	("4356349"   "4980914"   "5301236"   "5371799"   "5500900"   "5546465"   "5572591"   "5604809"   "5742688").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/06 11:22
S26 0	1	("5459790").PN.	USPAT	OR	OFF	2005/10/07 11:52
S26 1	1	(381/310).ccls. and CPU with detect\$3 with (DSP)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/01/18 09:07
S26 2	14	("381"/\$).ccls. and CPU with detect\$3 with (DSP)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/01/18 09:14
S26 3	1	("381"/310).ccls. and GUI	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/01/18 09:09
S26 4	83	("381"/\$).ccls. and GUI	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/01/18 09:09
S26 5	10	("381"/\$).ccls. and GUI and DSP and virtual	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/01/18 09:12
S26 6	0	("381"/\$).ccls. and GUI and (moving with virtual with \$4speak\$2)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/01/18 09:12
S26 7	0	(700/94).ccls. and GUI and (moving with virtual with \$4speak\$2)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/01/18 09:12

## EAST Search History

S26 8	0	(700/94).ccls. and GUI and (virtual with \$4speak\$2)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/01/18 09:12
S26 9	4	("381"/\$).ccls. and GUI and (virtual with \$4speak\$2)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/01/18 09:13
S27 0	3	("381"/\$).ccls. and CPU with detect\$3 with (DSP) with memory	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/02/22 15:13
S27 1	11	("381"/\$).ccls. and CPU same detect\$3 same (DSP) same memory	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/02/22 14:46
S27 2	3	("381"/\$).ccls. and CPU with detect\$3 with (DSP) with memory	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/02/22 14:48
S27 3	80	CPU with detect\$3 with (exists) with memory	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/02/22 14:49
S27 4	0	"381"/\$.ccls. and CPU with detect\$3 with (exists) with memory	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/02/22 14:49
S27 5	8	CPU with detect\$3 with (exists) with memory and audio	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/02/22 14:50
S27 6	34	CPU with (determin\$4 or detect\$3) with (exists or present) with memory and audio	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/02/22 14:50
S27 7	1	("381"/\$).ccls. and HRTF same ITD same DSP	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/02/22 15:47
S27 8	46	(381/311).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/02/22 15:47
S27 9	241	(381/309).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/02/22 15:47
S28 0	884	(700/94).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/05/26 19:11